

Demolition Management Plan

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Project: Demolition of House and Sub-structures on both 23 & 25 Charles St, Liverpool NSW
Trade: Demolition
Address: 23-25 Charles St, Liverpool NSW

Scope of Works

The scope of works includes the demolition of existing structures down to and including as per below:

1. Demolition of existing structure and associates structures
2. Demolish and dispose of existing driveway/hardstand
3. Allow disposal of all demolition material to appropriate waste facility

Demolition Work program

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|---|---|
| 1. Site Establishment- | 1-2 days |
| 2. Demolition Program
consultants/council) | Approx. 7 days (TBC with client dependant on program and/or |
| 3. Working Hours- | |
| ▪ Monday -Friday | 7.00 AM - 5.00 PM (OR AS PER DA Conditions) |
| ▪ Saturday | 8.00 AM - 1.00 PM (OR AS PER DA Conditions) |
| ▪ Sunday & Public Holidays | N/A |

Methodology

We have reviewed the project documentation and visited site and have understood the site constraints and requirements for the project. Regarding the methodology and sequencing of this project we have considered the various site-specific aspects of the project for demolition including surrounding properties and traffic conditions.

Prior to mobilising on site, a demolition plan as per DA approval will be created to ensure that all processes necessary to facilitate the project are in place.

These areas will include:

- **Contractual and legal requirements** – both parties to agree with the documentation and the terms of the contract in accordance with the scope of works.
- **Securities and insurances** – ensure adequate insurances are in place prior to the project start.
- **Service plans** – apply for dial before you dig plans to allow ample time for further investigation. (By others)
- **Neighbour notification** - All the neighbouring properties will be notified by dropping neighbour letter in to letter box.
- **Service disconnection** - At this stage client is to make all applications to the relevant authorities for power, gas & water disconnection.
- **Structural plans** – ensure that any structures affected by works have been investigated and a dilapidation report is reviewed out prior to work commence
- **Safe Work Method Statement** - agreed to by Client in accordance with the proposed works
- **Environmental** - sediment and erosion controls will be in place before starting demolition work
- **Site Amenities** - Physical site amenities will be established, and existing services disconnected
- **Traffic and pedestrian management plans** – plans to be submitted with sufficient time to allow for any necessary council road or pedestrian pathway changes. Traffic Management is by Main Contractor.
- **Additional resources** – ensure any additional resources of plant, tooling, labour and professional services have been organised.

The works will be executed in consultation with the client.

- **Work Area** - Proper care will be taken to demarcate/ separate the operational area to Work Site

The aim of this demolition methodology is to outline the demolition work. It will cover the following areas of management-

1. Legislative Requirements
2. Site Establishment
3. Disconnection of live services
4. Hours of Operation
5. Site Description
6. Plant & Equipment

7. Demolition Sequencing
8. Asbestos Removal & Clearance
9. Detail & Roof demolition
10. Main Demolition Works
11. Stockpiling of Demolished Materials Onsite
12. Traffic Management Plan
13. Transport Vehicles & Frequency
14. Adjoining Structure
15. Reference Documents

1. Legislative Requirements

All works will be performed in accordance with relevant Legislation, Australian Standards, Codes of Practice and Guidelines for demolition. As a minimum, Workplace Health and Safety Act 2011 (WHS Act), Workplace Health and Safety Regulation 2017 and AS 2601 – Demolition of Structures will be followed.

- AS2601-2001 Demolition of Structures
- WorkCover: Code of Practice for Demolition works
- B341-RMS Specification for the demolition of structures
- Code of Practice – Safe removal of Asbestos 2011
- WHS Regulation 2017
- POEO (waste) regulation 2014

2. Site establishment

Temporary power will be supplied to the area by portable generator or a temporary builder's supply with ELCB protection. All temporary electrical installations will comply with AS 3012-1990-Electrical Installations – Construction and Demolition Sites. All power tools and leads will be tagged and checked monthly and earth leakage protection shall be used.

All employees will be inducted on the procedure of the **Safe Work Method Statement** and the general work procedures outlined in the site induction prior to commencing works on site.

The demolition site will be fenced off to prevent unauthorised personnel and signposted appropriately for demolition work to comply with regulations.

The following protective measures will be considered as follows-

- **Boundary Fencing** – The existing boundary fencing is to be retained using temporary fencing to supplement the fencing where required keeping the site secure always. Gates are to be kept shut always to keep the site secure. Access and egress to be kept clear always
- **Dust control** – Dust control measures will be in place to maintain dust control throughout the demolition works by using water cart or high-pressure blasters. Air monitoring to be in place during asbestos removal if required.
- **Sediment control** - Sediment control measure will be put into place as per sediment control plan to ensure compliance with regulations.
- **Signage** – All appropriate signage (asbestos removal, demolition works in progress etc.) including Civil 1 Pty Ltd contact details will be put in place during the works
- **Site traffic** – Spotter to be used when required. Traffic controller will be in charge of controlling traffic always.

3. Disconnection of Services

Prior to demolition, the site will be inspected to determine if any services still require disconnection and capping. Power will be disconnected from the buildings by a licensed electrician.

All existing stormwater pits to the site will be covered with geo-fabric sediment fencing to prevent sediment runoff into the stormwater system. To prevent sediment contamination, the filters will be regularly inspected and replaced during the duration of the works.

The water service to the buildings will be disconnected and capped with a temporary water service connection for dust control.

All underground services are to be located and marked on plan as required. The overhead services are outside the work area and caution to be exercised to ensure no over height vehicles enter site.

4. Hours of Operation

The working hours for this project will be 07:00AM to 05:00PM Monday to Friday and on Saturday between 8.00 AM - 1.00 PM. No works will take place outside these hours. No works will be undertaken on Sundays and Public Holidays.

It is anticipated that the demolition work will take approx. 5-10 days.

5. Site Description

The site is at 23-25 Charles St, Liverpool NSW. Description of site as per below 6maps NSW snapshot. As well as on the basis of licensed Surveyor site survey. Main structure with extension and associated structures such as carport.



6. Plant & Equipment

Here is the list of plant that will be utilised on above site-

- Appropriate size excavator with appropriate attachments
- Water cart
- Semitrailer
- Suspension Harness etc.

7. Demolition Sequencing

The demolition works will be undertaken in the following sequence:

- Disconnection of all live services
- Site establishment with all relevant sign
- Soil & sediment control
- Asbestos removal (If required)
- Detail demolition (If required)
- Bulk demolition with all relevant machineries
- Load out & disestablish
- Site clearance

8. Asbestos Removal and Clearance

Asbestos Removal and hazard signs will be put up prior to commencement of any asbestos removal. These works will be performed by a licensed asbestos removalist company under the monitoring and inspection of an occupational environmental hygienist. All works will be carried out in accordance with current legislation, codes of practice, standards and guidelines for removing and handling asbestos containing products.

Plastic sheets will be laid on ground around working area, which will be wrapped, labelled and tipped as asbestos waste at the end of works. All asbestos containing elements identified will be removed offsite. Visual Asbestos clearance inspection and certificate will be done as per SafeWork NSW requirements. The asbestos clearance certificates are the first hold point in the demolition works.

On completion of the asbestos and hazardous material removal works, a clearance certificate will be issued by the occupational environmental hygienist prior to demolition commencing. A copy of tip dockets will be provided proving all hazardous materials removed from site were disposed of at an EPA approved landfill i.e. Blacktown Waste or SUEZ.

If any unexpected suspected ACIM is found during the demolition, the area shall be isolated immediately and ensure no other personnel enter the area. Notify the site management as to nature of the hazard found and an occupational hygienist shall test the material to determine whether the material is in fact ACIM. If it is, a licenced asbestos subcontractor will be engaged to remove the asbestos and a clearance certificate obtained prior to recommencement of demolition.

9. Detail Demolition Works

Roof tiles, ceiling and other detail demolitions will be dismantled by our experienced labour with safety harness and adequate power tools. PPE will be worn always (i.e. Hi visibility vest, safety boots, gloves, safety glasses, safety harness etc.). External walls to be assessed to eliminate potential debris falling onto neighbouring properties. During roof dismantling equipment to be used are power tools, manual stripping, etc. Stripped materials will be aggregated within drop zone. Except designated workers no workers will be allowed around drop zone.

- Drop zone to be established within the property boundary walls.

- No person is allowed within the property without permission
- Work only in daylight hours
- Regular breaks
- Keep hydrated
- Operator to be ticketed and competent
- wet down work areas where practicable to minimize dust
- hearing protection
- maintain good housekeeping by keeping the entry/ exit, escape route etc. always clear in case of emergency
- ensure all personnel are wearing lanyards/harnesses all times
- Ensure personal are ticketed for safely working at heights

10. Bulk Demolition Works

Before work commences the area to be demolished will be barricaded off and appropriate demolition signs placed at the entry points to the building. The hand strip-out will commence after isolation of all services has occurred.

Hand isolation by the demolition personal using hand held tools.

An excavator will demolish the roof and perimeter walls using a grapple attachment and progressively lift down the roof trusses.

The excavator will then demolish and remove internal ceilings, walls and fitments as rubbish. The flooring will then be lifted for salvage and the machine will demolish the supporting footings and support piers. During demolition, a worker will be in attendance with the excavator to control dust and act as a spotter.

All demolished materials will be sorted into waste streams for disposal off site to recycling depots or landfill. All brick and concrete will be loaded out and disposed of to a concrete recycling facility.

At all times during the works a man holding a water hose will work with the machine to act as a spotter and provide a water spray to control dust.

11. Disposing material Off Site

All material generated from the demolition process will be progressively removed from site to avoid stockpiling. The demolition material will be sorted in this area and transported off site to recycling yards or tips.

- Brick/Concrete - Concrete recyclers Camellia or Boral Recycling at Prospect
- Demolition Wastes - Bingo Recycling services
- Asbestos- Veolia Waste Services/SUEZ
- Metal/steel - Sell & Parker Blacktown

12. Traffic Management Plan

Road access to the corner of Charles St, Liverpool is to be dictated as per traffic management plan and traffic control plan provided by traffic engineer with practising license. It is preferred when the traffic engineer considered within their TCP design the entry and exit of trucks (semi's) into the site rather than external to the site. This specific project allows for plentiful room for truck access within the site to avoid traffic congestion. Traffic control plan is to show CIVIL1 location, proximity and type

of signage, traffic controllers required as well as pathway to and from site for trucks and machinery. The requirement of a TCP/TMP may not be necessary depending on if movement of trucks and machinery will impact pedestrians and vehicles.

Cattle grids will be installed at site entrance and exit point to stop material from being tracked onto road if needed. Tyres will be hosed/brushed clean and street will be swept clean. Clear signage will be in place at the delivery entrance to the site directing construction vehicles. When leaving site, traffic controller will be responsible for stopping vehicle safely, whilst trucks exiting onto the road, as well as informing drivers to drive carefully on to the major roads.

All exiting trucks will be loaded to their prescribed weight limits, within the site boundary. All trucks will be covered by tarpaulin or similar prior to exiting the site.

The demolition site will not interfere with any pedestrian movement other than at the access/egress points. Works will be carried out so that no impacts affect the surrounding buildings and roads.

13. Transport Vehicles & Frequency

All demolition wastes will be transported in semi-trailers and rigid tipper trucks.

Loading and Unloading Equipment: All plant and equipment will be loaded and unloaded inside the demolition site. No loading or unloading will take place outside work site.

14. Reference Documents

Here is the list of documents that are related this project as bellows-

- Demolition/Survey plan
- Demolition Code of practise- AS 2601-2001
- Code of Practice – Safe removal of Asbestos 2011
- SafeWork: Code of Practice for Demolition works
- SWMS